

This chart provides a detailed guide to engineering plan symbols and abbreviations. It is divided into two main sections: Abbreviations and Symbols.

Abbreviations:

- abut., abgr., lamination
- aggregate, AH, latitude
- ahead, alt., left
- alternate, &, length of curve
- and, et al., liter
- and others, et ux, longitudinal
- and wife, etc., low water
- and so forth (et cetera), etc., lump sum
- approach, appr., magnetic
- approximate, approx., main line
- asphalt, asph., maintenance
- at, @, material
- average daily traffic, ADT, maximum
- back, BK, meter (measurement)
- back to back, b. to b., metric ton
- balance point, BP, millimeter
- batter, btr., mile post
- beam, bm., minute(s) (angular)
- bearing, brg., minimum
- beginning, beg., miscellaneous
- bench mark, BM, monument
- bridge, br., mountain(s)
- centerline, £, negative
- center to center, cc or c. to c., north
- centers, ctrs., newton
- channel change, ch. ch., number
- clear, clr., original ground
- column, col., out to out
- concrete, conc., outside diameter
- connection, conn., constr.
- construction joint, constr. jt., pascal
- contingent sum, CTSM, pavement
- continuous, cont., percent
- Contracting Officer, CO, perforate
- corrugated, corr., plate
- corrugated metal pipe, CMP, point of compound curve
- coulomb, C, point of curve
- county, cty., point of intersection
- countersink, ctsk., point of spiral to curve
- creek, cr., point of curve to spiral
- cubic meter, m³ or m³, point on spiral
- culvert, culv., point of spiral to tangent
- curve left, Δ, point of tangent
- curve right, LT, point of tangent to spiral
- degree, ° deg., point of tangent to spiral
- degree Celsius, °C, project
- design hour volume, DHV, quantities
- design speed, V, radian
- diagonal, diag., radius
- diameter, dia., D, or Ø, range
- diaphragm, diaph., reconstruction
- district, Dist., reinforcement
- donation land claim, DLC, required
- drawings(s), drwg(s.), reservoir or Reservation
- east, E, retaining wall
- edge of pavement, EP, right
- edge of water, EW, right-of-way
- edge of road, ER, road
- elevation, elev., roadway
- elevation with number, El. 94.066 m, route
- embankment, emb., school
- Engineer(s), engr(s.), second (angular)
- equation, EQ or ea., second (time)
- excavation, exc., section
- expansion joint, exp. jt., slope protection
- Federal, Fed., south
- finish, fin., spacing, Spaces or Spaced
- flange, flg., specification
- footing, ftg., spiral angle
- for example, e.g., square
- galvanized, galv., square meter
- gage (gauge), gd., standard
- headwall, hdwl., station
- hectare, ha., stiffener
- hexagon, hex., straight
- high water, HW, street
- highway, hwy., stringer
- house, hse., structural
- homestead entry survey, HES, superelevation rate
- identification, iden., symmetrical
- inclusive, incl., tangent
- inside diameter, ID, tangent length
- joint, jt., temporary bench mark
- kilogram, kg, that is
- kilometer, km, thread
- kilometer per hour, km/h, township
- Kilometer post, K.M., typical
- vehicles per hour, vph
- vertical point of intersection, VPI
- warehouse, whs.
- west, W

Symbols:

- NATIONAL BOUNDARY
- STATE BOUNDARY
- COUNTY BOUNDARY
- CITY BOUNDARY
- TOWNSHIP or RANGE LINE
- SECTION LINE
- 1/4 SECTION LINE
- 1/16 SECTION LINE
- NATIONAL PARK or FOREST BOUNDARY
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- RIGHT-OF-WAY LINE with MONUMENT
- EASEMENT (Permanent - Non-Permanent)
- SLOPE STAKE
- ROADWAY, EXISTING
- RAILROAD
- SILT FENCE
- TRAIL
- INTERMITTENT DRAINAGE and SMALL CREEK
- LARGE CREEK/RIVER
- LAKE, POND or RESERVOIR; MARSHLAND
- SPRING
- TREELINE; TREE
- MATERIAL SOURCE
- SECTION CORNER
- 1/4 SECTION CORNER
- 1/16 SECTION or PROPERTY CORNER
- PROPERTY CORNER
- PARCEL NUMBER
- NORTH ARROW
- FENCE
- GATE with FENCE
- CATTLEGUARD
- GUARDRAIL
- SIGNS
- RETAINING WALL
- POWER POLE UTILITIES
- UNDERGROUND UTILITIES
- SUPPORT POLE with ANCHOR
- TELEPHONE BOOTH or PEDESTAL
- STREET LIGHT
- BRIDGE
- PIPE CULVERT (arrow shows flow)
- PIPE CULVERT with END SECTION
- PIPE CULVERT with HEADWALL
- BOX CULVERT
- CULVERT with DROP INLET
- UNDERDRAIN
- CONTROL POINT
- SURVEY MONUMENT
- HUB & TACK
- SPOT ELEVATION
- COORDINATE GRID TICK
- BUILDING
- BORING LOCATION
- RIPRAP

Legend:

- FOUND**: A symbol showing a crosshair with numbers 36, 31, 16, and 22.
- PROJECTED**: A symbol showing a crosshair with numbers 36, 31, 15, and 22.
- PARCEL NUMBER**: A symbol showing the number 400.
- NOTE:**
 - Dimensions in this plan set are in millimeters unless otherwise noted.
 - Other symbols used in the plans will be shown in a legend on the appropriate plan sheet.

PLAN SYMBOLS and ABBREVIATIONS